Following are some topics of study and video links for Tuesday’s mid-term

* Isometric drawings, nets, and basic constructions <http://www.youtube.com/watch?v=8BFjHJTs4q0&feature=related> <http://www.youtube.com/watch?v=zq8tDZhLCEU&feature=related>

<http://www.youtube.com/watch?v=UZjevRGLjTM>

<http://www.youtube.com/watch?v=B_1JBtVNjzc> <http://www.youtube.com/watch?v=u5dNDPWwqmU&feature=channel> <http://www.youtube.com/watch?v=YjOI1p2sZ9w>

* Area and volume <http://www.youtube.com/watch?v=QgVRuz0QS20>
* Mid-point and distance formula <http://www.youtube.com/watch?v=9GGf2be54AI&feature=related>
* Points lines and planes <http://www.youtube.com/watch?v=JAG1zsIt93U> <http://www.youtube.com/watch?v=82HDnvFTZwI&feature=related>
* Angles and triangles <http://www.youtube.com/watch?v=yptZt9hwrzU&feature=related> <http://www.youtube.com/watch?v=_FmS8KA6iu4>
* Postulates and Theorems 1-1 through3-4 <http://www.youtube.com/watch?v=j7QtyJRKCE0> <http://www.youtube.com/watch?v=hr3lj1bHzPY>
* **Chapter 1: Tools of Geometry**
* **Postulate 1-1**
* **Postulate 1-2**
* **Postulate 1-3**
* **Postulate 1-4**
* **Postulate 1-5**
* **Ruler Postulate**
* **Postulate 1-6**
* **Segment Addition Postulate**
* **Postulate 1-7**
* **Protractor Postulate**
* **Postulate 1-8**
* **Angle Addition Postulate**
* **The Distance Formula**
* **The Midpoint Formula**
* **Postulate 1-9**
* **Postulate 1-10**
* **Chapter 2: Reasoning and Proof**
* **Law of Detachment**
* **Law of Syllogism**
* **Properties of Congruence**
* **Reflexive Property**
* **Symmetric Property**
* **Transitive Property**
* Postulates, Theorems, and Constructions **733**

**eorems**

* **Theorem 2-1**
* **Vertical Angles Theorem**
* Vertical angles are congruent. (p. 98)
* • Proof on p. 98, Example 3
* **Theorem 2-2**
* **Congruent Supplements Theorem**
* If two angles are supplements of the same angle
* (or of congruent angles), then the two angles are
* congruent. (p. 99)
* • Proofs on p. 99; p. 102, Exercise 55
* **Theorem 2-3**
* **Congruent Complements Theorem**
* If two angles are complements of the same angle
* (or of congruent angles), then the two angles are
* congruent. (p. 99)
* • Proofs on p. 100, Exercise 19; p. 102, Exercise 56
* **Theorem 2-4**
* All right angles are congruent. (p. 99)
* • Proof on p. 101, Exercise 31
* **Theorem 2-5**
* If two angles are congruent and supplementary, then
* each is a right angle. (p. 99)
* • Proof on p. 101, Exercise 35
* **Chapter 3: Parallel and**
* **Perpendicular Lines**
* **Postulate 3-1**
* **Corresponding Angles Postulate**
* If a transversal intersects two parallel lines, then
* corresponding angles are congruent. (p. 116)
* **Theorem 3-1**
* **Alternate Interior Angles Theorem**
* If a transversal intersects two parallel lines, then
* alternate interior angles are congruent. (p. 116)
* • Proof on p. 117
* **Theorem 3-2**
* **Same-Side Interior Angles Theorem**
* If a transversal intersects two parallel lines, then
* same-side interior angles are supplementary. (p. 116)
* • Proof on p. 117, Example 3
* **Postulate 3-2**
* **Converse of the Corresponding Angles Postulate**
* If two lines and a transversal form corresponding
* angles that are congruent, then the two lines are
* parallel. (p. 122)
* **Theorem 3-3**
* **Converse of the Alternate Interior Angles Theorem**
* **Theorem 3-4**
* **Converse of the Same-Side Interior Angles Theorem**